INVENTOR SEARCH RESULTS:

? **ds**

```
Set     Items   Description
S1         35   AU=(CIAVARELLA, N? OR CIAVARELLA N?)
S2         52   AU=(ROSENKRANZ, M? OR ROSENKRANZ M?)
S3      12325   AU=(SMITH, D? OR SMITH D?)
S4          6   S1 AND (S2:S3)
S5          3   S2 AND S3
S6          6   S4 OR S5
S7          6   RD  (unique items)
```

? **show files**

```
File 350:Derwent WPIX 1963-2010/UD=201068
         (c) 2010 Thomson Reuters
File  35:Dissertation Abs Online 1861-2010/Sep
         (c) 2010 ProQuest Info&Learning
File  65:Inside Conferences 1993-2010/Oct 26
         (c) 2010 BLDSC all rts. reserv.
```

7/25/1 (Item 1 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0016393871 *Drawing available*
WPI Acc no: 2007-110044/200711
XRPX Acc No: N2007-078240
Counter mounted dispensing system for receiving e.g. bottle, has bottle support retained under counter, where alignment skirt of bottle support provides open end for insertion of product container
Patent Assignee: CIAVARELLA N E (CIAV-I); HAYES D D (HAYE-I); KANFER J (KANF-I); ROSENKRANZ M E (ROSE-I); KANFER J S (KANF-I)
Inventor: **CIAVARELLA** N E; HAYES D D; **ROSENKRANZ M E**; HAYES D

Patent Family (3 patents, 2 countries)

Patent Number	Kind	Date	Update	Type
US 20070017932	A1	20070125	200711	B
CA 2553111	A1	20070125	200714	E
US 7815074	B2	20101019	201068	E

Local Applications (no., kind, date): US 2005188266 A 20050725; CA 2553111 A 20060724; US 2005188266 A 20050725
Priority Applications (no., kind, date): US 2005188266 A 20050725
Alerting Abstract US A1
NOVELTY - The system has a bottle support (14) retained under a counter, and an alignment skirt providing an open end (36) for insertion of a product container (12). A release mechanism is located at a neck (30) of the support that serves to support the container when the container is fully inserted into the support. The container has a rectangular cross-sectional shape and is

received and held by the support. A release ring in the support engages a collar key on the container to releasably hold the container.
USE - Used for receiving a refill product e.g. liquid, and foam, container such as bottle.
ADVANTAGE - The alignment skirt provides the open end for insertion of the product container, thus facilitating installation and removal of refill containers that are conducive to use even when not being viewed by the individual using the container. The container has the rectangular cross-sectional shape and is received and held by the support, thus preventing the rotation of the container. The rectangular shape of the container increases the volume of the product provided by the product container.
DESCRIPTION OF DRAWINGS - The drawing shows a perspective view of a bottle support.
12 Product container
14 Bottle support
30 Neck
36 Open end
86, 92 Detents
88 Side wall
90 Body
94 Shoulder
96 Finger grip detent
100 Channel

7/25/2 (Item 2 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0015707574 *Drawing available*
WPI Acc no: 2006-270912/200628
XRPX Acc No: N2006-231536
Positive displacement pump bottle for dispensing fluid product, has limiter with clip clipped to piston external of bottle to restrict distance that piston head travels, and overcap secured to limiter over piston and piston head
Patent Assignee: CIAVARELLA N E (CIAV-I); MAY L A (MAYL-I); ROSENKRANZ M E (ROSE-I); SPRIEGEL A R (SPRI-I)
Inventor: **CIAVARELLA** N E; MAY L A; **ROSENKRANZ M E**; SPRIEGEL A R

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Update	Type
US 20060071032	A1	20060406	200628	B

Local Applications (no., kind, date): US 2004934053 A 20040903
Priority Applications (no., kind, date): US 2004934053 A 20040903

Alerting Abstract US A1
NOVELTY - The bottle has a positive displacement pump communicating with bottle holding fluid, and with a piston capped with a piston head. A piston stroke limiter has a piston restriction clip (112) which is secured to the bottle and clipped to the piston external of the bottle to restrict a distance that the piston head travels against a bias. A protective overcap (104) is secured to the limiter over the piston and the piston head.
USE - Used for dispensing a fluid product.
ADVANTAGE - The piston restriction clip of the piston stroke limiter is secured to the bottle and clipped to the piston external of the bottle to restrict the distance that the piston head travels against the bias, thus achieving differing doses of the fluid, even when full stroke of the piston is employed. The protective overcap is secured to the limiter over the piston and the piston head, thus protecting the piston head and the piston of the bottle during packaging and shipping.
DESCRIPTION OF DRAWINGS - The drawing shows a positive displacement pump bottle.
18 Pump mechanism
100 Piston stroke limiter
102 Cap
104 Protective overcap
112 Piston restriction clip

7/25/3 (Item 3 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0015645689 *Drawing available*
WPI Acc no: 2006-209868/200622
Related WPI Acc No: 2004-071303
XRPX Acc No: N2006-180448
Dip tube assembly and pump for use with containers used for lotions, has flexible dip tube whose one end extends into cavity in parallel direction with respect to longitudinal axis of pump
Patent Assignee: KANFER J S (KANF-I)
Inventor: **CIAVARELLA** N E; **ROSENKRANZ M E**; SAYERS R C; WILLIS D M

Patent Family (1 patents, 1 countries)

Patent Number	Kind	Date	Update	Type
US 7011237	B1	20060314	200622	B

Local Applications (no., kind, date): US 2002162741 A 20020606; US 2003723641 A 20031126
Priority Applications (no., kind, date): US 2002162741 A 20020606; US 2003723641 A 20031126
Alerting Abstract US B1

NOVELTY - The dip tube assembly has a flexible and unitary dip tube (150) which extends in downward direction towards a pump assembly (120) to draw the fluid in the bottom of a container. One end (152) of the dip tube is redirected by an arcuate portion (153) such that the end extends into a cavity (155) in parallel direction with respect to the longitudinal axis of a pump (126).
DESCRIPTION - An INDEPENDENT CLAIM is also included for pump apparatus.
USE - For use with container used for soap, lotion, foams, antibacterial and antimicrobial compositions.
ADVANTAGE - Simplifies the manufacturing and installation process of the dip tube assembly by reducing the number of components.
DESCRIPTION OF DRAWINGS - The figure shows a sectional view of the pump assembly.
120 pump assembly
126 pump
150 unitary dip tube
152 one end of tube
153 arcuate portion
155 cavity

Dialog eLink: Order File History
7/25/4 (Item 4 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0014966616 *Drawing available*
WPI Acc no: 2005-314419/200532
XRPX Acc No: N2005-257025
Universal collar key for container used in soap dispenser, has flanges which extend radially from collar, and are axially spaced from each other to define clearance for receiving keyplate of soap dispenser upon insertion of soap container
Patent Assignee: CIAVARELLA N E (CIAV-I); KANFER J (KANF-I); KANFER J S (KANF-I); O'TOOLE M (OTOO-I); OTOOLE M (OTOO-I); ROSENKRANZ M E (ROSE-I); SMITH D F (SMIT-I); GOJO IND INC (GOJO-N)
Inventor: **CIAVARELLA** N; **CIAVARELLA N E**; O'TOOLE M; OTOOLE M; **ROSENKRANZ M**; **ROSENKRANZ M E**; **SMITH D F**; ROSENDRANZ M E

Patent Family (15 patents, 108 countries)

Patent Number	Kind	Date	Update	Type
US 20050092771	A1	20050505	200532	B
WO 2005039371	A1	20050506	200532	E
EP 1677656	A1	20060712	200648	E
AU 2004283749	A1	20050506	200675	E
BR 200415869	A	20070109	200707	E
CN 1870927	A	20061129	200720	E
TW 255173	B1	20060521	200724	E
JP 2007508915	W	20070412	200726	E
IN 200601737	P1	20070413	200735	E
KR 2006128866	A	20061214	200742	E
US 20070272709	A9	20071129	200780	E
SG 152280	A1	20090529	200939	E
TW 200526160	A	20050816	200957	E
CN 100518608	C	20090729	201004	E
US 7798370	B2	20100921	201062	E

Local Applications (no., kind, date): US 2003692906 A 20031025; WO 2004US35450 A 20041025; EP 2004817363 A 20041025; WO 2004US35450 A 20041025; AU 2004283749 A 20041025; BR 200415869 A 20041025; WO 2004US35450 A 20041025; CN 200480031573 A 20041025; TW 2004132641 A 20041026; WO 2004US35450 A 20041025; JP 2006536926 A 20041025; WO 2004US35450 A 20041025; IN 2006DN1737 A 20060330; WO 2004US35450 A 20041025; KR 2006707825 A 20060424; SG 20092907 A 20041025; TW 2004132641 A 20041026; CN 200480031573 A 20041025 ; US 2003692906 A 20031025
Priority Applications (no., kind, date): US 2003692906 A 20031025
Alerting Abstract US A1
NOVELTY - The collar key has a collar adapted to be supported on the container. Two flanges extend radially from the collar, and are axially spaced from each other to define a clearance for receiving a keyplate (31A) of a soap dispenser (10F) therebetween upon insertion of the container (20A) within a housing (11A) of the soap dispenser.
DESCRIPTION - An INDEPENDENT CLAIM is also included for a dispenser.
USE - For container that is inserted within housing of soap dispenser.
ADVANTAGE - Provides collar key that may be used to fit a single container in multiple dispenser housings.
DESCRIPTION OF DRAWINGS - The figure is a partially fragmented perspective view of a dispenser with the cover removed and the soap container rotated 90 degrees outwardly from the base of the dispenser to show details thereof.

10F Soap dispenser
11A Housing
20A Container
25A Pump
31A Keyplate

Dialog eLink: Order File History
7/25/5 (Item 5 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0014957695 *Drawing available*
WPI Acc no: 2005-305474/200531
XRPX Acc No: N2005-249984
Universal collar for attaching pump to container used in dispenser, has collar body having first and second flanges which extend outward and are axially separated to receive key plate of dispenser in between flanges
Patent Assignee: CIAVARELLA N E (CIAV-I); KANFER J (KANF-I); ROSENKRANZ M E (ROSE-I); SMITH D F (SMIT-I); KANFER J S (KANF-I)
Inventor: **CIAVARELLA** N; **CIAVARELLA N E**; **ROSENKRANZ M**; **ROSENKRANZ M E**; **SMITH D**; **SMITH D F**

Patent Family (12 patents, 108 countries)

Patent Number	Kind	Date	Update	Type
US 20050087563	A1	20050428	200531	B
WO 2005039370	A1	20050506	200531	E
EP 1681971	A1	20060726	200650	E
AU 2004283747	A1	20050506	200675	E
BR 200415864	A	20070109	200707	E
CN 1870925	A	20061129	200720	E
TW 255175	B1	20060521	200724	E
JP 2007509014	W	20070412	200726	E
IN 200601738	P1	20070413	200735	E
KR 2006128867	A	20061214	200742	E
TW 200526162	A	20050816	200957	E
CN 100518606	C	20090729	201004	E

Local Applications (no., kind, date): US 2003693567 A 20031025; WO 2004US35448 A 20041025; EP 2004796427 A 20041025; WO 2004US35448 A 20041025; AU 2004283747 A 20041025; BR 200415864 A 20041025; WO 2004US35448 A 20041025; CN 200480031515 A 20041025; TW 2004132643 A 20041026; WO 2004US35448 A 20041025; JP 2006536924 A 20041025; WO 2004US35448 A 20041025; IN 2006DN1738 A 20060330; WO 2004US35448 A 20041025; KR 2006707826 A 20060424; TW 2004132643 A 20041026; CN 200480031515 A 20041025

Priority Applications (no., kind, date): US 2003693567 A 20031025
Alerting Abstract US A1
NOVELTY - A collar body has a first flange and a second flange (42), such that the flanges extend outward and are axially separated to receive the key plate of the dispenser in between the flanges.
USE - For securing container within dispenser for dispensing liquid and powder, such as lotion or soap, and for attaching pump to container.
ADVANTAGE - Fits single container in multiple dispenser housings.
DESCRIPTION OF DRAWINGS - The figure is the perspective view of the dispenser with the cover removed to expose container and pump having universal pump collar.
25 Pump
27 Nozzle
28 Slide guide
40 Universal collar
42 Second flange

Dialog eLink: Order File History
7/25/6 (Item 6 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0014957691 *Drawing available*
WPI Acc no: 2005-305470/200531
XRPX Acc No: N2005-249980
Universal adapter clip for securing container in soap dispenser, has tab which extends rearward from hollow body, and axially spaced from flange to receive key plate of soap dispenser upon insertion of container within soap dispenser
Patent Assignee: CIAVARELLA N E (CIAV-I); KANFER J (KANF-I); OTOOLE M (OTOO-I); ROSENKRANZ M E (ROSE-I); SMITH D F (SMIT-I); KANFER J S (KANF-I)
Inventor: CIAVARELLA N; CIAVARELLA N E; O'TOOLE M; OTOOLE M; ROSENKRANZ M; ROSENKRANZ M E; SMITH D; **SMITH D F**; ROSENDRANZ M E

Patent Family (16 patents, 108 countries)

Patent Number	Kind	Date	Update	Type
US 20050087552	A1	20050428	200531	B
WO 2005039369	A2	20050506	200531	E
EP 1677655	A2	20060712	200648	E
AU 2004283748	A1	20050506	200675	E
BR 200415865	A	20070109	200707	E
KR 2006103319	A	20060928	200707	E
CN 1870926	A	20061129	200720	E
TW 255174	B1	20060521	200724	E
JP 2007511257	W	20070510	200731	E
IN 200601746	P1	20070413	200735	E
EP 1677655	B1	20080903	200860	E
DE 602004016363	E	20081016	200870	E
ES 2310770	T3	20090116	200909	E
US 7503465	B2	20090317	200922	E
TW 200526161	A	20050816	200957	E
CN 100518607	C	20090729	201004	E

Local Applications (no., kind, date): US 2003693534 A 20031025; WO 2004US35449 A 20041025; EP 2004817362 A 20041025; WO 2004US35449 A 20041025; AU 2004283748 A 20041025; BR 200415865 A 20041025; WO 2004US35449 A 20041025; WO 2004US35449 A 20041025; KR 2006707827 A 20060424; CN 200480031571 A 20041025; TW 2004132642 A 20041026; WO 2004US35449 A 20041025; JP 2006536925 A 20041025; WO 2004US35449 A 20041025; IN 2006DN1746 A 20060330; EP 2004817362 A 20041025; WO 2004US35449 A 20041025; DE 062004016363 A 20041025; EP 2004817362 A 20041025; WO 2004US35449 A 20041025; EP 2004817362 A 20041025; US 2003693534 A 20031025; TW 2004132642 A 20041026 ; CN 200480031571 A 20041025

Priority Applications (no., kind, date): US 2003693534 A 20031025

Alerting Abstract US A1

NOVELTY - A hollow body is attached to a container (20). A flange (45) extends radially outward from the hollow body. A tab (50), which extends rearward from the hollow body, is axially spaced from the flange to receive the key plate of a soap dispenser upon insertion of the container within the soap dispenser.

USE - For securing container in soap dispenser.

ADVANTAGE - Replaces a collar key to fit a single container in multiple dispenser housings.

DESCRIPTION OF DRAWINGS - The figure is the enlarged perspective view of a pump extending from a container having a universal adapter clip.

20 Container

45 Flange

46 Bottom edge
47 Rim
50 Tab

NPL BILBIO SEARCH RESULTS:

? **ds**

Set	Items	Description
S1	3711868	DISPENSER? ? OR DISPENSING? ? OR PUMP? OR PULSING OR PISTON? ? OR DISTRIBUTE? ? OR DISTRIBUTING OR DELIVER? OR GIVING()OUT
S2	7843778	LIQUID? ? OR PASTE? ? OR PASTING OR GEL? OR FLUID? ? OR FOAM? OR SOAP? ? OR DETERGENT? ? OR MEDICATION? ? OR LOTION? ?
S3	3891831	COLLAR? ? OR BAND? OR RING? ? OR WRAP?()AROUND OR NECKBAND?
S4	134488	S1(5N)S2
S5	3844	S3(S)S4
S6	339450	FLANGE? ? OR RIB? ? OR RIM? ? OR (PROJECT? OR PROTRUD? OR EXTEND?)()EDGE? ?
S7	19227	(FIRST OR 1ST OR 1()ST OR ONE OR LEADING OR PRIMARY OR NUMBER ()ONE)(5N)S6
S8	1666344	NOTCH? OR CUT()OUT OR CLEFT? ? OR GAP? ? OR INDENT? OR GROOVE? ?
S9	20034	(SECOND OR 2ND OR 2()ND OR TWO OR NEXT OR DUO OR PAIR OR SET? ?)(5N)S6
S10	240427	KEYPLATE? ? OR KEY()(PLATE? ? OR BAR? ? OR LEVER? ?) OR GEAR? ?
S11	4350	UNIVERSAL? (3N)(FITTED OR FITTING OR SEAL? OR ADAPT? OR SUITED OR SUITABLE)
S12	19	S5(S)(S7 OR S9)
S13	17	RD (unique items)
S14	8894	S6(5N)S8
S15	5	S14(S)S5
S16	5	S15 NOT S12
S17	5	RD (unique items)

? **show files**

File 2:INSPEC 1898-2010/Oct W3
(c) 2010 The IET
File 6:NTIS 1964-2010/Oct W5
(c) 2010 NTIS, Intl Cpyrght All Rights Res
File 8:Ei Compendex(R) 1884-2010/Oct W3
(c) 2010 Elsevier Eng. Info. Inc.
File 35:Dissertation Abs Online 1861-2010/Sep
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(c) 2002 Gale/Cengage
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(c) 2010 The HW Wilson Co.
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File 65:Inside Conferences 1993-2010/Oct 26
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File 36:MetalBase 1965-20101022
(c) 2010 The Thomson Corporation
File 23:CSA Technology Research Database 1963-2010/Oct
(c) 2010 CSA.
File 81:MIRA - Motor Industry Research 2001-2009/Sep

13/3,K/4 (Item 3 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database

0010924266 IP Accession No: 200812-71-2387217; 200812-61-2490479; 20082323556; A08-99-2426006
ELECTROMAGNETIC PUMP

Kreitchman, Morton A , USA
Publisher Url: http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u =/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PALL&S1=36 01509.PN.&OS=pn/3601509&RS=PN/3601509
Document Type: Patent
Record Type: Abstract
Language: English
File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology
Abstract:
...and, when energized, is operative to move the piston assembly against its spring bias. The **piston** assembly is formed with a **fluid** -conducting slot which communicates with said outlet port. Sealing means for sealing said slot from the inlet port comprise a sealing **ring** engaging inner walls of the cylinder, and flanges forming part of said piston assembly spaced from and disposed on opposite sides of the sealing **ring**, said **flanges** movably engaging **first** and **second** portions of the sealing **ring** during suction and return strokes of the piston assembly, said slot being sealed from the...

13/3,K/9 (Item 8 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database

0010169545 IP Accession No: 200809-71-1659449; 200809-61-1761915; 20081612935; A08-99-1716815
High-capacity centrifugal pump

Nachtrieb, Paul W , USA
Publisher Url: http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u =/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=48 26402.PN.&OS=pn/4826402&RS=PN/4826402
Document Type: Patent
Record Type: Abstract
Language: English
File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Abstract:
A high capacity centrifugal **pump** for the transfer of **liquids** is presented. The **pump** comprises four major components held in rigid assembly by means of screws and pins: a drive unit which includes a drive shaft, a keyway and key, an end play control **collar** and an impeller mounting fixture; a one piece pump housing comprising mounting legs and a ... ...a circular pump chamber cavity and a shaft hole containing a lip seal and a **pair** of **flanged** sleeve bearings; a **one** piece impeller of a width slightly less than its diameter; an end plate encompassing a... ...inlet port. The drive shaft and attached impeller are mounted off center in the cylindrical **pump** chamber to permit **liquid** escaping from the impeller to enter a surrounding area which closely resembles the volute chambers common to conventional single stage centrifugal pumps. Operation is identical to similar **pumps** in that **liquid** to be transported is admitted to the pump's inlet port which is concentric to...

13/3,K/17 (Item 16 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database

0008815929 IP Accession No: 200804-71-452860; 200804-61-480218; 2008437251; A08-99-467025
Dispenser having a breakable and replaceable membrane for a rigid container for liquids

Vizcarra, Carlos Bartning Rodriguez; Diaz, Carlos Bartning , USA
Publisher Url: http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u =/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=58 84810.PN.&OS=pn/5884810&RS=PN/5884810

Document Type: Patent
Record Type: Abstract
Language: English
File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology

Abstract:
A rigid container for **liquids** having an integrated **dispenser** is disclosed. The dispenser adapted to be received within an opening formed in the bottom of the container. The dispenser has a body which includes **first** and **second flanges** extending away from the body. These flanges define an annular outer recess therebetween which is... ...dispensing key is inserted within the dispenser inner recess. The breakable membrane may include a **ring** located adjacent its outer peripheral edge. The **ring** has a reduced thickness as compared to the thickness of the remaining portion of the...

17/3,K/2 (Item 2 from file: 23)
DIALOG(R)File 23: CSA Technology Research Database

0010496278 IP Accession No: 200809-71-1840501; 200809-61-1942752; 20081793318; A08-99-1896987
Silent valve

Pesovic, Predrag; Zebeljanovic, Radomir; Stijelja, Radoljub , USA
Publisher Url: http://patft.uspto.gov/netacgi/nph-Parser?Sect1=PTO2&Sect2=HITOFF&u =/netaht ml/PTO/search-adv.htm&r=1&p=1&f=G&l=50&d=PTXT&S1=47 78149.PN.&OS=pn/4778149&RS=PN/4778149
Document Type: Patent
Record Type: Abstract
Language: English
File Segment: Metadex; Mechanical & Transportation Engineering Abstracts; ANTE: Abstracts in New Technologies and Engineering; Aerospace & High Technology
Abstract:
...7 by teeth 22 which grasp a circumferential flange 18 of the piston 1. A **ring**-like seal 15 is positioned on the piston 1 for selective opening of slots 4 on the hollow portion of head 3 for allowing **fluid** to flow through the valve. **Piston** carrier 7 also has a **flange** 38 with **notches** 39, 40 receiving cogs 35, 36 of securing element 20, positioned on the neck 30...

PATENT SEARCH RESULTS:

? **ds**

Set Items Description

```
S1     2355044   DISPENSER? ? OR DISPENSING? ? OR PUMP? OR PULSING OR PISTON? ?
                 OR DISTRIBUTE? ? OR DISTRIBUTING OR DELIVER? OR GIVING()
                 OUT
S2     3974223   LIQUID? ? OR PASTE? ? OR PASTING OR GEL? OR FLUID? ? OR
                 FOAM?  OR SOAP? OR DETERGENT? ? OR MEDICATION? ? OR LOTION? ?
S3      791320   FLANGE? ? OR RIB? ? OR RIM? ? OR (PROJECT? OR PROTRUD? OR
                 EXTEND?)()EDGE? ?
S4     1882473   COLLAR? ? OR BAND? OR RING? ? OR WRAP?()AROUND OR NECKBAND?
                 OR NECK()BAND? OR SEAL()LIP? ?
S5     2388541   NOTCH? OR CUT()OUT OR CLEFT? ? OR GAP? ? OR INDENT? OR
                 GROOVE? ? OR SLOT?
S6      122532   (FIRST OR 1ST OR 1()ST OR ONE OR LEADING OR PRIMARY OR NUM-
                 BER()ONE)(5N)S3
S7      130786   (SECOND OR 2ND OR 2()ND OR TWO OR NEXT OR DUO OR PAIR OR
                 SET? ?)(5N)S3
S8      523263   KEYPLATE? ? OR KEYWAY? ? OR KEY()(PLATE? ? OR WAY? ? OR BAR? ?
                 OR LEVER? ?) OR GEAR? ?
S9      480720   S1(S)S2
S10      26448   S1(15N)S3
S11       2811   S1(15N)S6
S12       3264   S1(15N)S7
S13       4896   S10(S)S11:S12
S14        515   S13(10N)S4
S15        522   S13(10N)S5
S16         86   S13(10N)S8
S17        136   S9(S)S14:S15
S18          3   S17(20N)S16
S19        938   S1(S)S14:S15
S20         21   S19(S)S16
S21         18   S20 NOT S18
S22     203677   (CONTAINER? ? OR BAG? ? OR SAG? ? OR SACK? ? OR HOUSING OR
                 CASING)(15N)S1
S23     464381   (ATTACH? OR SECUR? OR MOUNT? OR CONNECT?)(15N)S4
S24       6118   S22(S)S23
S25        247   S24(15N)S10
S26         32   S25(15N)S5
S27          2   S26(10N)S8
S28         30   S26 NOT S27
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? **show files**

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File 350:Derwent WPIX 1963-2010/UD=201068
         (c) 2010 Thomson Reuters
File 347:JAPIO Dec 1976-2010/Jun(Updated 100924)
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28/25/1 (Item 1 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0020068131 *Drawing available*
WPI Acc no: 2010-B80799/201014
Pump for heat-pump type hot water supply device, has groove in inner peripheral portion of mold stator and rib in outer peripheral surface of pump portion that are fitted with each other when attaching mold stator and pump portion
Patent Assignee: MITSUBISHI ELECTRIC CORP (MITQ)
Inventor: ASO H; ISHII H; KAWAKUBO M; YAMAMOTO M; YAMAZAKI T

Patent Family (1 patents, 1 countries)				
Patent Number	**Kind**	**Date**	**Update**	**Type**
JP 2010038069	A	20100218	201014	B

Local Applications (no., kind, date): JP 2008203169 A 20080806
Priority Applications (no., kind, date): JP 2008203169 A 20080806
Alerting Abstract JP A
NOVELTY - The pump portion is formed by attaching a bowl shaped partition components (90) provided with a collar portion. A groove is formed in the inner peripheral portion of a mold stator (50) at an axial direction. A rib (91) is formed in the outer peripheral surface of partition components of pump portion, and is extended in axial direction from a connection unit with the collar portion. The groove and rib are fitted with each other when attaching the mold stator and pump portion along rotation direction.
DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

1. heat-pump type hot water supply device; and
2. manufacturing method of pump.

USE - Pump for heat-pump type hot water supply device (claimed).
ADVANTAGE - The assembly process of pump is simplified by positioning the mold stator and pump portion with the bowl-shaped partition components reliably.
DESCRIPTION OF DRAWINGS - The drawing shows a sectional view of the pump.
10 Pump
50 Mold stator
60 Rotor
90 Bowl-shaped partition component
91 Rib

28/25/4 (Item 4 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0017603961 *Drawing available*
WPI Acc no: 2008-E24405/200829
Related WPI Acc No: 2009-F94558
Chilled topping dispenser for dispensing chilled toppings to beverages, carriage assembly connected to pressure roller for moving pressure roller relative to pressure surface to force product from bag
Patent Assignee: RICH PROD CORP (RICH-N)
Inventor: AVERY W; ERMAN G; FALLER J; RICKER D; RICKER D A; TIRONE C; TIRONE C V; WILSON A; TRIONE C V

Patent Family (11 patents, 122 countries)

Patent Number	Kind	Date	Update	Type
WO 2008027884	A2	20080306	200829	B
US 20080073374	A1	20080327	200829	E
WO 2008027884	A3	20080731	200853	E
US 7475795	B2	20090113	200907	E
TW 200820911	A	20080516	200922	E
EP 2066569	A2	20090610	200938	E
KR 2009056976	A	20090603	200939	E
IN 200900839	P1	20090522	200951	E
CN 101511689	A	20090819	200957	E
MX 2009001922	A1	20090331	200966	E
ZA 200901056	A	20100127	201015	E

Local Applications (no., kind, date): WO 2007US76983 A 20070828; US 2006841064 P 20060830; US 2007846143 A 20070828; US 2006841064 P 20060830; US 2007846143 A 20070828; TW 2007132344 A 20070830; EP 2007841462 A 20070828; WO 2007US76983 A 20070828; WO 2007US76983 A 20070828; KR 2009702977 A 20090213; WO 2007US76983 A 20070830; IN 2009DN839 A 20090204; CN 200780032586 A 20070828; WO 2007US76983 A 20070828; WO 2007US76983 A 20070828; MX 20091922 A 20090220; ZA 20091056 A 20090213
Priority Applications (no., kind, date): US 2006841064 P 20060830; WO 2007US76983 A 20070828; US 2007846143 A 20070828

Alerting Abstract WO A2

NOVELTY - The dispenser has a housing (12) including a dispensing port communicating with a product compartment. A dispensing valve assembly includes a pressure-actuated dispensing valve aligned with a dispensing port of housing. A carriage assembly is connected to a pressure roller for supporting and moving the pressure roller relative to pressure surface. A carriage and an electric motor are operable to displace the carriage relative to the pressure surface. The movement of pressure roller relative to pressure surface forces product from the bag through dispensing valve.

DESCRIPTION - An INDEPENDENT CLAIM is included for dispenser refill package.

USE - Chilled topping dispenser for use with bag for dispensing chilled toppings to hot or cold, coffee, deserts, shakes, beverages, iced cappuccinos, and frozen drinks.

ADVANTAGE - The loading and unloading of the products bags can be performed easily. The structure of the dispenser is simple.

DESCRIPTION OF DRAWINGS - The drawing shows a perspective view of the topping dispenser.

3 Opens space
12 Housing
14 Front portion

34 Front wall of drawer
35 Handle

28/25/8 (Item 8 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0012831488 *Drawing available*
WPI Acc no: 2002-689579/200274
Related WPI Acc No: 2003-139745
XRPX Acc No: N2002-543859
Rivet setting tool has ratcheting interface between jaw guide and collar on pulling head adaptor and rotation constraint interface between nose housing flange and piston housing
Patent Assignee: EMHART LLC (EMHA); NEWFREY LLC (NEWF)
Inventor: BANDUCCI D; BANDUCCI D J; DONOFRIO D; DONOFRIO D J; KINSLEY J; KINSLEY J P; KOMSTA T; KOMSTA T S; ZIRPS C; ZIRPS C T; ZIRPS T C; BANDUCCI J; DONOFRIO J; KINSLEY P; KOMSTA S; ZIRPS T

Patent Family (10 patents, 23 countries)

Patent Number	Kind	Date	Update	Type
US 6425170	B1	20020730	200274	B
WO 2002098585	A2	20021212	200282	E
EP 1392459	A2	20040303	200417	E
CZ 200303295	A3	20040714	200448	E
JP 2004522594	W	20040729	200452	E
EP 1392459	B1	20060906	200659	E
DE 60214540	E	20061019	200670	E
ES 2271252	T3	20070416	200728	E
DE 60214540	T2	20070913	200761	E
JP 4076945	B2	20080416	200828	E

Local Applications (no., kind, date): US 2001873619 A 20010604; WO 2002US16662 A 20020529; EP 2002731945 A 20020529; WO 2002US16662 A 20020529; WO 2002US16662 A 20020529; CZ 20033295 A 20020529; WO 2002US16662 A 20020529; JP 2003501615 A 20020529; EP 2002731945 A 20020529; WO 2002US16662 A 20020529; DE 60214540 A 20020529; EP 2002731945 A 20020529; WO 2002US16662 A 20020529; EP 2002731945 A 20020529; DE 60214540 A 20020529; EP 2002731945 A 20020529; WO 2002US16662 A 20020529; WO 2002US16662 A 20020529; JP 2003501615 A 20020529
Priority Applications (no., kind, date): US 2001873619 A 20010604
Alerting Abstract US B1
NOVELTY - A pulling head adaptor (46) is threadedly connected between piston (44) and jaw guide assembly (48). The jaw guide collar (186) is biased into engagement with ratcheting teeth (202,192) by a spring (188) while tightening the adaptor. The **flange** (212) of nose **housing** (18) has rotation constraint **notches**

to mate with tabs (218) in **piston housing** (16) when screwing in nose knob (222).
USE - For rivet setting.
ADVANTAGE - Enables quick exchange of jaw guide assembly to suit different sized rivets as quick connect jaw guide assembly with ratcheting interface and quick connect nose housing are provided. Saves cost as different sized rivets are set by exchanging jaw guides.
DESCRIPTION OF DRAWINGS - The figures show the perspective view of quick connect jaw guide assembly and an exploded perspective view of quick connect nose housing.
16 Piston housing
18 Nose housing
44 Piston
46 Pulling head adaptor
48 Jaw guide assembly
186 Jaw guide collar
192,202 Ratcheting teeth
212 Flange
218 Tabs
222 Nose knob

28/25/9 (Item 9 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0012439374 *Drawing available*
WPI Acc no: 2002-384735/200242
XRPX Acc No: N2002-301166
Detachable cover for plastic casing of pump has on outer side ribs installed in spoke fashion and with slot into which fits corresponding radially inwards projecting tab on locking ring
Patent Assignee: BABCO GMBH (BABC-N); BUSSMANN P (BUSS-I)
Inventor: BUSSMANN P

Patent Family (5 patents, 3 countries)

Patent Number	Kind	Date	Update	Type
DE 10140406	A1	20020508	200242	B
US 20020094288	A1	20020718	200254	E
US 6609901	B2	20030826	200357	E
DE 10140406	B4	20050210	200513	E
CH 694865	A5	20050815	200557	E

Local Applications (no., kind, date): DE 10140406 A 20010817; US 200132674 A 20011025; US 200132674 A 20011025; DE 10140406 A 20010817; CH 20002106 A 20001027
Priority Applications (no., kind, date): CH 20002106 A 20001027; DE 10140406 A 20010817
Alerting Abstract DE A1

NOVELTY - The detachable cover (5) for the plastic casing (1) of the pump has on its outer side at least two ribs (8) installed in spoke fashion. Each rib has an outer protrusion and by this is opened a slot radially accessible from the outside. A locking ring (10) has a number of radially inwards projecting tabs (11) which corresponds to the number of ribs in the cover and by rotating on the cover is brought into a locked position. The tabs are sized and arranged in such a way that in the locked position they fit fully in the respectively slots in the end face of the cover.
USE - The sealing system is for cylindrical plastic casings which may be for immersion pumps.
ADVANTAGE - With the cover fitted the locking ring is fixed both radially and axially and even against an undesired deformation.
DESCRIPTION OF DRAWINGS - The drawing shows a plan view of a pump casing of a plastic immersion pump with the cover in the closed state.
1 casing
5 cover
8 ribs
10 locking ring
11 tabs

28/25/13 (Item 13 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0010426680 *Drawing available*
WPI Acc no: 2001-025295/200103
XRAM Acc no: C2001-007846
Liquid homogenization device for paint barrels, has cup-shaped collar of distributor with flange portion having holes which is aligned with hole of outer pipes or kept out of alignment
Patent Assignee: ECCO FINISHING AB (ECCO-N)
Inventor: JOHANSSON S

Patent Family (5 patents, 90 countries)

Patent Number	Kind	Date	Update	Type
WO 2000074829	A1	20001214	200103	B
SE 199902038	A	20001203	200106	E
SE 514366	C2	20010212	200116	E
AU 200052597	A	20001228	200119	E
US 6290385	B1	20010918	200157	E

Local Applications (no., kind, date): WO 2000SE924 A 20000510; SE 19992038 A 19990602; SE 19992038 A 19990602; AU 200052597 A 20000510; US 2000584663 A 20000601
Priority Applications (no., kind, date): SE 19992038 A 19990602
Alerting Abstract WO A1
NOVELTY - A cup-like collar (15) inclusive of a bottom plate (16)

and a circumferring flange (17), is mounted on an inner pipe (5') which is placed in a container and surrounded by an outer pipe (6'). Holes (18,18') provided in the flange align with holes (19,19') of the outer pipe or are kept out of alignment.
DESCRIPTION - The collar and the outer pipe are mutually turnable to align both the holes or keep the holes out of alignment. When the two holes are in the aligned condition, the liquid from the container is ejected out radially through a ring-shaped gap (9) formed between the two pipes and when the two holes are not in alignment, the liquid from the hole of the outer pipe is deflected upward from the inner surface of the flange and directed to flow back to the container. An outlet pipe leads the radially ejected liquid to the desired location. The two pipes are extended from the inside bottom end of the container and the holes are provided at the free upper end portion of the pipes. The free end of the inner pipe is obliquely cut. The outer diameter of the collar is kept greater than outer diameter of the outer pipe with differences in the two diameters not exceeding 50%.
USE - For storage of paint in barrels.
ADVANTAGE - Enhances ejecting homogeneous liquid irrespective of volume of liquid in the container due to provision of return flow of the liquid directed to bottom of the tank. Does not require a large sized collar, since ejection and return of liquid are controlled only through alignment and out of alignment of the holes.
DESCRIPTION OF DRAWINGS - The figure shows a perspective cross sectional view of a distributor portion of the liquid homogenization device.
5' Inner pipe
6' Outer pipe
9 Ring shaped gap
15 Collar
16 Bottom plate
17 Circumferring flange
18,18',19,19' Holes

28/25/17 (Item 17 from file: 350)
DIALOG(R)File 350: Derwent WPIX

0009277964 *Drawing available*
WPI Acc no: 1999-207155/199918
XRPX Acc No: N1999-152672
Centrifugal pump having adaptable connection flange has low production and warehouse cost
Patent Assignee: GRUNDFOS AS (GRUN-N)
Inventor: JENSEN N D

Patent Family (4 patents, 24 countries)

Patent Number	Kind	Date	Update	Type
EP 907029	A2	19990407	199918	B
DE 19743833	A1	19990415	199921	E
EP 907029	B1	20030910	200360	E
DE 59809550	G	20031016	200369	E

Local Applications (no., kind, date): EP 1998118524 A 19980930; DE 19743833 A 19971004; EP 1998118524 A 19980930; DE 59809550 A 19980930; EP 1998118524 A 19980930
Priority Applications (no., kind, date): DE 19743833 A 19971004; EP 1998118524 A 19980930

Alerting Abstract EP A2

NOVELTY - The pump has connection sockets with at least one formed as a connection flange (5). This has a sealing flange (8) with end-sided sealing face (11) and a surrounding one-part flange (9) for fastener elements. Sealing and fastener flanges are positively connected via a one-part holder ring (10), fitted into a circumferential **groove** (13) between the **flanges**. A suction socket and a pressure socket are located aligned on the **pump housing**, each with a sealing and a fastener **flange**.

USE - Centrifugal pump.

ADVANTAGE - Connection flange can be adapted to various standard flanges with low production and warehousing costs.

DESCRIPTION OF DRAWINGS - Figure shows intake-sided connection flange.

5 sealing flange
8 connection flange
9 fastener flange
10 holder ring
11 sealing face
13 groove